

## SEQUENCE LISTING

<120> COMPOSITIONS AND METHODS FOR REGULATING  
LYMPHOCYTE ACTIVATION

<140> US

<160> 80

<210> 1

<212> PRT

 $\langle 400 \rangle$  1

Gly Gly Ser Leu Thr Leu Ser Val Asn Leu Asp Leu Leu Arg Leu Tyr  
210 215 220 225

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<210> 2
<211> 183
<212> PRT
<213> Llama llama
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[illegible]

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<210> 3
<211> 204
<212> PRT
<213> Llama llama
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Ile	Arg	Leu	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Val	Ala	Ser	Gly	Arg	Ile	Phe	Thr	Ile	Arg
			20					25					30		
Thr	Met	Gly	Trp	Tyr	Arg	Gln	Thr	Pro	Gly	Ile	Gln	Pro	Glu	Leu	Val
		35					40					45			
Ala	Glu	Ile	Thr	Ala	Asp	Gly	Ser	Gln	Asn	Tyr	Val	Asp	Ser	Val	Lys
	50					55					60				
Gly	Arg	Phe	Thr	Ile	Phe	Gly	Asp	Asn	Asp	Lys	Lys	Thr	Val	Trp	Leu
65					70					75					80
Gln	Met	Asn	Ser	Leu	Lys	Ala	Glu	Asp	Thr	Ala	Asp	Tyr	Tyr	Cys	Ala

				85					90					95			
Ala	Asp	Ile	Ile	Thr	Thr	Asp	Trp	Arg	Ser	Ser	Arg	Tyr	Trp	Gly	Gln		
			100					105					110				
Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Pro	Lys	Thr	Pro	Lys	Pro	Gln		
		115					120					125					
Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Asn	Pro	Thr	Thr	Glu	Ser	Lys		
	130					135				140							
Cys	Pro	Lys	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe		
145					150					155					160		
Ile	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Val	Leu	Ser	Ile	Ser	Gly	Arg	Pro		
			165					170						175			
Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Gly	Gln	Glu	Asp	Pro	Glu	Val		
		180					185						190				
Ser	Phe	Asn	Gly	Thr	Leu	Met	Ala	Lys	Ala	Glu	Phe						
	195						200										

<210> 4  
 <211> 208  
 <212> PRT  
 <213> Llama llama

Ile	Arg	Leu	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly		
1			5					10					15				
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Glu	Arg	Asp	Phe	Gly	Ser	Ser		
		20					25					30					
Val	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Pro	Glu	Phe	Val		
	35					40					45						
Ala	Ala	Ile	Asn	Trp	Ser	Val	Gly	Gly	Thr	Tyr	Tyr	Thr	Asp	Ser	Val		
	50			55						60							
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Val	Tyr		
65			70					75						80			
Leu	Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Ser	Cys		
			85				90						95				
Ala	Val	Arg	Thr	Arg	Gln	Arg	Leu	Asn	Ile	Arg	Ala	Asp	Glu	Asp	Tyr		
		100				105						110					
Gly	Tyr	Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Pro	Lys		
	115				120						125						
Thr	Pro	Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Asn	Pro		
	130			135				140									
Thr	Thr	Glu	Ser	Lys	Cys	Pro	Lys	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly		
145				150				155							160		
Gly	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Val	Leu	Ser		
			165				170						175				
Ile	Ser	Gly	Arg	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Gly	Gln		
		180				185						190					
Glu	Asp	Pro	Glu	Val	Ser	Phe	Asn	Gly	Thr	Leu	Met	Ala	Lys	Pro	Asn		
	195						200					205					

<210> 5  
 <211> 206  
 <212> PRT  
 <213> Llama llama

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<400> 5
Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1          5          10          15
Ser Leu Arg Leu Ser Cys Thr Thr Ser Gly Ile Lys Phe Gly Ile Thr
          20          25          30
Ala Met Thr Trp Tyr Arg Gln Thr Pro Leu Asn Glu Pro Glu Leu Val
          35          40          45
Ala Val Val Gly Gly Gly Gly Ser Thr Leu Tyr Glu Gly Arg Val Lys
          50          55          60
Gly Arg Phe Thr Ile Ser Arg Asp Asn Asp Lys Asn Thr Ala Tyr Leu
65          70          75          80
Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Gly
          85          90          95
Ala Ala Ala Ser Ile Leu Ala Ala Ser Ser Ala Glu Thr Val Gln Tyr
          100          105          110
Trp Gly Gln Gly Thr Gln Val Thr Val Ser Leu Glu Pro Lys Thr Pro
          115          120          125
Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Gln Pro Asn Pro Thr Thr
          130          135          140
Glu Ser Lys Cys Pro Lys Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
145          150          155          160
Ser Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Val Leu Ser Ile Ser
          165          170          175
Gly Arg Pro Glu Val Thr Cys Val Val Val Asp Val Gly Gln Glu Asp
          180          185          190
Pro Glu Val Ser Phe Asn Gly Thr Leu Met Ala Lys Pro Asn
          195          200          205

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<210> 6
<211> 208
<212> PRT
<213> Llama llama

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<400> 6
Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Arg Gly Ala
 1          5          10          15
Ser Leu Arg Leu Thr Cys Val Val Ser Gly Ile Phe Val Asp Arg Trp
          20          25          30
Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Gln Lys Pro Leu Phe Val
          35          40          45
Ala Ser Ile Ala Trp Asp Gly Asp Glu Thr Trp Tyr Gly Asp Ser Val
          50          55          60
Lys Gly Arg Phe Thr Val Ser Arg Asp Val Ala Lys Asn Ser Val Tyr
65          70          75          80
Leu Gln Leu Ala Asn Leu Gln Pro Glu Asp Thr Ala Thr Tyr Ser Cys
          85          90          95
Ala Ala Leu Asn Gly Ala Trp Pro Ser Ser Ile Ala Thr Met Thr Pro
          100          105          110
Asp Leu Gly Trp Trp Gly Gln Gly Thr Gln Val Thr Val Ser Leu Glu
          115          120          125
Pro Lys Thr Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Asn Pro
          130          135          140
Thr Thr Glu Ser Lys Cys Pro Lys Cys Pro Ala Pro Glu Leu Leu Gly
145          150          155          160

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Gly	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Val	Leu	Ser
				165					170					175	
Ile	Ser	Gly	Arg	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Gly	Gln
			180					185					190		
Glu	Asp	Pro	Glu	Val	Ser	Phe	Asn	Gly	Thr	Leu	Met	Ala	Lys	Pro	Asn
		195					200					205			

<210> 7  
 <211> 204  
 <212> PRT  
 <213> Llama llama

<400> 7

Ile	Arg	Leu	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Thr	Gly	Asp
1				5					10					15	
Ser	Leu	Lys	Leu	Ser	Cys	Val	Ala	Ser	Gly	Arg	Asn	Phe	Ser	Ser	Tyr
			20					25				30			
His	Met	Ala	Trp	Phe	Arg	Gln	Thr	Pro	Asp	Lys	Glu	Pro	Glu	Phe	Val
		35				40					45				
Ala	Val	Ser	Trp	Lys	Gly	Gly	Ser	Glu	Tyr	Tyr	Lys	Asn	Ser	Val	Lys
		50			55						60				
Gly	Arg	Phe	Thr	Leu	Ser	Arg	Asp	Gly	Ala	Lys	Asn	Thr	Val	Tyr	Leu
65				70					75					80	
Gln	Met	Asn	Ser	Leu	Lys	Pro	Glu	Asp	Ser	Gly	Val	Tyr	Tyr	Cys	Ala
			85					90						95	
Ala	Asp	Asp	His	Val	Thr	Arg	Gly	Ala	Ser	Lys	Ala	Ser	Tyr	Arg	Tyr
			100				105						110		
Trp	Gly	Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Pro	Lys	Thr	Pro
		115				120						125			
Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Asn	Pro	Thr	Thr	Glu	Ser
		130				135				140					
Lys	Cys	Pro	Lys	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val
145				150					155					160	
Phe	Ile	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Val	Leu	Ser	Ile	Ser	Gly	Arg
			165					170						175	
Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Gly	Gln	Glu	Asp	Pro	Glu
			180					185					190		
Val	Ser	Phe	Asn	Gly	Thr	Leu	Met	Ala	Lys	Pro	Asn				
		195				200									

<210> 8  
 <211> 211  
 <212> PRT  
 <213> Llama llama

<400> 8

Ile	Arg	Leu	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Ala	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Arg	Thr	Phe	Ser	Arg	Tyr
			20					25				30			
Tyr	Met	Gly	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Glu	Pro	Glu	Ser	Val
		35				40					45				
Ala	Leu	Ile	Ser	Arg	Ser	Gly	Gly	Ser	Thr	Asp	Tyr	Ala	Asp	Ser	Val
		50				55					60				

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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Pro Tyr
65          70          75          80
Leu Gln Met Asn Ser Leu Ile Pro Glu Asp Thr Ala Asp Tyr Tyr Cys
          85          90          95
Ala Ala Asn Ile Ala Ala Gly Trp Asp Thr Leu Ser Arg Asp Trp Arg
          100          105          110
Asp Lys Arg Thr Tyr Ser Tyr Trp Gly Gln Gly Thr Gln Val Thr Val
          115          120          125
Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln
          130          135          140
Pro Asn Pro Thr Thr Glu Ser Lys Cys Pro Lys Cys Pro Ala Pro Glu
145          150          155          160
Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Pro Lys Asp
          165          170          175
Val Leu Ser Ile Ser Gly Arg Pro Glu Val Thr Cys Val Val Val Asp
          180          185          190
Val Gly Gln Glu Asp Pro Glu Val Ser Phe Asn Gly Thr Leu Met Ala
          195          200          205
Lys Pro Asn
          210

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<210> 9
<211> 205
<212> PRT
<213> Llama llama

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<400> 9
Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Asp
1          5          10          15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Thr Asn Tyr
          20          25          30
Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Pro Glu Phe Val
          35          40          45
Ala Arg Ile Ser Arg Val Gly Ser Ser Thr Phe Tyr Thr Asp Ser Val
          50          55          60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Met Tyr
65          70          75          80
Leu Gln Met Asn Ser Met Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys
          85          90          95
Ala Ala Asp Ser Asp Tyr Gly Pro Gly Arg Arg Ser Ser Glu Tyr Asp
          100          105          110
Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr
          115          120          125
Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Asn Pro Thr Thr Glu
          130          135          140
Ser Lys Cys Pro Lys Arg Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser
145          150          155          160
Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Val Leu Ser Ile Ser Gly
          165          170          175
Arg Pro Glu Val Thr Cys Val Val Val Asp Val Gly Gln Glu Asp Pro
          180          185          190
Glu Val Ser Phe Asn Gly Thr Leu Met Ala Lys Pro Asn
          195          200          205

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<210> 10  
 <211> 209  
 <212> PRT  
 <213> Llama llama

<400> 10  
 Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
 1 5 10 15  
 Ser Leu Gln Leu Ser Cys Ala Thr Ser Gly Val Leu Thr Ser Gly Asp  
 20 25 30  
 Tyr Ala Val Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly  
 35 40 45  
 Val Ser Cys Leu Ser Arg Tyr Gly Gly Pro Thr Leu Tyr Ala Asp Ser  
 50 55 60  
 Val Lys Gly Arg Phe Thr Ser Ser Ser Asp Ala Ala Lys Thr Lys Val  
 65 70 75 80  
 Tyr Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr  
 85 90 95  
 Cys Thr Ala His Ile Ser Cys Asp Trp Asn Ile Ile Asn Pro Asn Glu  
 100 105 110  
 Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro  
 115 120 125  
 Lys Thr Pro Lys Pro Gln Pro Gln Pro Gln Pro Gln Pro Asn  
 130 135 140  
 Pro Thr Thr Glu Ser Lys Cys Pro Lys Cys Pro Ala Pro Glu Leu Leu  
 145 150 155 160  
 Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Val Leu  
 165 170 175  
 Ser Ile Ser Gly Arg Pro Glu Val Thr Cys Val Val Val Asp Val Gly  
 180 185 190  
 Gln Glu Asp Pro Glu Val Ser Phe Asn Gly Thr Leu Met Ala Ser Arg  
 195 200 205  
 Ile

<210> 11  
 <211> 217  
 <212> PRT  
 <213> Llama llama

<400> 11  
 Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Asp  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Val Ser Gly Val Phe Thr Leu Asp Asp  
 20 25 30  
 Tyr Ala Ile Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly  
 35 40 45  
 Val Ile Cys Met Ser Ala Ser Asp Gly Ser Thr Tyr Tyr Ser Asp Ser  
 50 55 60  
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Asp Lys Asn Thr Leu  
 65 70 75 80  
 Tyr Leu Gln Met Glu Arg Leu Lys Pro Glu Asp Thr Ala Thr Tyr Tyr  
 85 90 95  
 Cys Ala Ala Asn Tyr Leu Gly Arg Val Arg Gly Ser Ala Ile Arg Ala

			100					105					110		
Ala	Asp	Tyr	Cys	Ser	Gly	Ser	Gly	Ser	Val	Val	Tyr	His	Phe	Trp	Gly
		115					120					125			
Gln	Gly	Thr	Gln	Val	Thr	Val	Ser	Ser	Glu	Pro	Lys	Thr	Pro	Lys	Pro
		130					135				140				
Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Asn	Pro	Thr	Thr	Glu	Ser	Lys	Cys
145					150					155					160
Pro	Lys	Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Ile
				165					170					175	
Phe	Pro	Pro	Lys	Pro	Lys	Asp	Val	Leu	Ser	Ile	Ser	Gly	Arg	Pro	Glu
			180					185					190		
Val	Thr	Cys	Val	Val	Val	Asp	Val	Gly	Gln	Glu	Asp	Pro	Glu	Val	Ser
		195					200					205			
Phe	Asn	Gly	Thr	Leu	Met	Ala	Glu	Phe							
	210					215									

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<210> 12
<211> 219
<212> PRT
<213> Llama llama
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	<400> 12															
Ile 1	Arg	Leu	Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly	
Ser	Leu	Arg	Leu 20	Ser	Cys	Ala	Ala 25	Ser	Gly	Val	Phe	Thr 30	Arg	Asp	Tyr	
Tyr	Val	Ile 35	Ala	Trp	Phe	Arg 40	Gln	Ala 45	Pro	Gly	Lys	Glu	Arg	Glu	Gly	
Val	Ser 50	Cys	Ile	Ser	Thr 55	Arg	Gly	Ser	Thr 60	Tyr	Tyr	Ala	Asp	Ser	Val	
Lys 65	Gly	Arg	Phe	Ala 70	Ile	Ser	Gly	Asp 75	Asn	Asp	Lys	Met	Thr	Val	Tyr	
Leu	Gln	Met	Asn 85	Asn	Leu	Lys	Pro	Glu 90	Asp	Thr	Ala	Val	Tyr 95	Tyr	Cys	
Gly	Ala	Leu 100	Ile	Asn	Trp	Tyr	Ser 105	Pro	Pro	Asn	Thr	Asp	Tyr 110	Asp	Ser	
Ala	Trp	Cys 115	Arg	Gly	Arg	Ser	Leu 120	Gly	Asp	Tyr	Gly	Leu 125	Asp	Tyr	Trp	
Gly	Lys 130	Gly	Thr	Leu	Val	Thr 135	Val	Ser	Ser	Glu	Pro	Lys	Thr	Pro	Lys	
Pro 145	Gln	Pro	Gln	Pro	Gln	Pro 150	Gln	Pro	Asn	Pro	Thr	Thr	Glu	Ser	Lys	
Cys	Pro	Lys	Cys 165	Pro	Ala	Pro	Glu	Leu 170	Leu	Gly	Gly	Pro	Ser	Val	Phe	
Ile	Phe	Pro 180	Pro	Lys	Pro	Lys	Asp 185	Val	Leu	Ser	Ile	Ser	Gly 190	Arg	Pro	
Glu	Val	Thr 195	Cys	Val	Val	Val	Asp 200	Val	Gly	Gln	Glu	Asp	Pro	Glu	Val	
Ser	Phe 210	Asn	Gly	Thr	Leu	Met 215	Ala	Lys	Pro	Asn						

<210>	13
<211>	216
<212>	PRT



<213> Llama llama

<400> 13

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Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly
 1           5           10           15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Phe Thr Phe Asp Asp
 20           25           30
Tyr Ala Ile Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Gly
 35           40           45
Val Ser Cys Ile Ser Thr Ser Asp Gly Ser Thr Tyr Tyr Gly Gly Ser
 50           55           60
Val Lys Gly Arg Phe Thr Ile Ser Val Asp Val Ala Lys Asn Thr Val
 65           70           75           80
Tyr Leu Gln Met Asn Ser Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr
 85           90           95
Cys Ala Ala Asp Pro Arg Ile Trp Leu His Ser Val Val Gln Gly Thr
 100          105          110
Glu Arg Cys Leu Thr Asn Asp Tyr Asp Tyr Trp Gly Gln Gly Thr Gln
 115          120          125
Val Thr Val Ser Ser Glu Leu Lys Thr Pro Lys Pro Gln Pro Gln Pro
 130          135          140
Gln Pro Gln Pro Gln Leu Asn Pro Thr Thr Glu Ser Lys Cys Pro Lys
 145          150          155          160
Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro
 165          170          175
Pro Lys Pro Lys Asp Val Leu Ser Ile Ser Gly Arg Pro Glu Val Thr
 180          185          190
Cys Val Val Val Asp Val Gly Gln Glu Asp Pro Glu Val Ser Phe Asn
 195          200          205
Gly Thr Leu Met Ala Lys Pro Asn
 210          215

```

<210> 14

<211> 214

<212> PRT

<213> Llama llama

<400> 14

```

Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 1           5           10           15
Ser Leu Thr Leu Ser Cys Glu Thr Phe Gly Val Ser Thr Ser Asp Tyr
 20           25           30
Tyr Tyr Ile Gly Trp Ile Arg Gln Ala Pro Gly Arg Glu Arg Glu Arg
 35           40           45
Val Ser Cys Ile Ser Gly Arg Asp Gly Thr Ala Ala Tyr Ala Asp Ser
 50           55           60
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val
 65           70           75           80
Tyr Leu Gln Met Asn Asn Leu Lys Pro Glu Asp Thr Ala Asp Tyr Tyr
 85           90           95
Cys Thr Ala Asn Leu Gly Leu Arg Pro Ser Asp Phe Asn Arg Gly Tyr
 100          105          110
Lys Cys Pro Tyr Glu Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr
 115          120          125

```

Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro Gln Pro Gln Pro  
 130 135 140  
 Gln Pro Gln Pro Asn Pro Thr Thr Glu Ser Lys Cys Pro Lys Cys Pro  
 145 150 155 160  
 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys  
 165 170 175  
 Pro Lys Asp Val Leu Ser Ile Ser Gly Arg Pro Glu Val Thr Cys Val  
 180 185 190  
 Val Val Asp Val Gly Gln Glu Asp Pro Glu Val Ser Phe Asn Gly Thr  
 195 200 205  
 Leu Met Ala Ser Arg Ile  
 210

<210> 15  
 <211> 204  
 <212> PRT  
 <213> Llama llama

<400> 15  
 Ile Arg Leu Leu Val Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Leu Thr Phe Asp Asp  
 20 25 30  
 Tyr Asp Ile Gly Trp Phe Arg Gln Ala Pro Glu Lys Asp Arg Glu Gly  
 35 40 45  
 Val Ser Cys Ile Ser Ala Thr Asp Asn Thr Thr Tyr Tyr Ser Asp Ser  
 50 55 60  
 Val Lys Gly Arg Phe Thr Ile Ser Ser Asn Asn Ala Glu Asn Thr Val  
 65 70 75 80  
 Tyr Leu Gln Ile Asn Ser Leu Gln Pro Glu Asp Thr Ala Val Tyr His  
 85 90 95  
 Cys Ala Ala Val Arg Ser Trp Val Lys Ser Ile Tyr Ser Arg Thr Trp  
 100 105 110  
 Cys Thr Asp Leu Tyr Leu Glu Val Trp Gly Gln Gly Thr Leu Val Thr  
 115 120 125  
 Val Ser Ser Glu Pro Lys Thr Pro Lys Pro Gln Pro Gln Pro Gln Pro  
 130 135 140  
 Gln Pro Leu Pro Asn Pro Thr Thr Glu Ser Lys Cys Pro Lys Cys Pro  
 145 150 155 160  
 Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Lys  
 165 170 175  
 Pro Lys Asp Val Leu Ser Ile Ser Gly Arg Pro Glu Val Thr Cys Val  
 180 185 190  
 Val Val Asp Val Gly Gln Glu Asp Pro Ser Arg Ile  
 195 200

<210> 16  
 <211> 231  
 <212> PRT  
 <213> Llama llama

<400> 16  
 Glu Pro His Gly Gly Cys Thr Cys Pro Gln Cys Pro Ala Pro Glu Leu  
 1 5 10 15

```

Pro Gly Gly Pro Ser Val Phe Val Phe Pro Pro Lys Pro Lys Asp Val
    20                25                30
Leu Ser Ile Ser Gly Arg Pro Glu Val Thr Cys Val Val Val Asp Val
    35                40                45
Gly Lys Glu Asp Pro Glu Val Asn Phe Asn Trp Tyr Ile Asp Gly Val
    50                55                60
Glu Val Arg Thr Ala Asn Thr Lys Pro Lys Glu Glu Gln Phe Asn Ser
    65                70                75                80
Thr Tyr Arg Val Val Ser Val Leu Pro Ile Gln His Gln Asp Trp Leu
    85                90                95
Thr Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Ala Leu Pro Ala
    100               105               110
Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly Gln Thr Arg Glu Pro
    115               120               125
Gln Val Tyr Thr Leu Ala Pro His Arg Glu Glu Leu Ala Lys Asp Thr
    130               135               140
Val Ser Val Thr Cys Leu Val Lys Gly Phe Tyr Pro Ala Asp Ile Asn
    145               150               155               160
Val Glu Trp Gln Arg Asn Gly Gln Pro Glu Ser Glu Gly Thr Tyr Ala
    165               170               175
Asn Thr Pro Pro Gln Leu Asp Asn Asp Gly Thr Tyr Phe Leu Tyr Ser
    180               185               190
Arg Leu Ser Val Gly Lys Asn Thr Trp Gln Arg Gly Glu Thr Leu Thr
    195               200               205
Cys Val Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser
    210               215               220
Ile Thr Gln Ser Ser Gly Lys
    225               230

```

```

<210> 17
<211> 231
<212> PRT
<213> Llama llama

```

```

<400> 17
Glu Pro His Gly Gly Cys Thr Cys Pro Gln Cys Pro Ala Pro Glu Leu
 1      5      10      15
Pro Gly Gly Pro Ser Val Phe Val Phe Pro Pro Lys Pro Lys Asp Val
    20      25      30
Leu Ser Ile Ser Gly Arg Pro Glu Val Thr Cys Val Val Val Asp Val
    35      40      45
Gly Lys Glu Asp Pro Glu Val Asn Phe Asn Trp Tyr Ile Asp Gly Val
    50      55      60
Glu Val Arg Thr Ala Asn Thr Lys Pro Lys Glu Glu Gln Phe Asn Ser
    65      70      75      80
Thr Tyr Arg Val Val Ser Val Leu Pro Ile Gln His Gln Asp Trp Leu
    85      90      95
Thr Gly Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Ala Leu Pro Val
    100     105     110
Pro Ile Glu Arg Thr Ile Ser Lys Ala Lys Gly Gln Thr Arg Glu Pro
    115     120     125
Gln Val Tyr Thr Leu Ala Pro His Arg Glu Glu Leu Ala Lys Asp Thr
    130     135     140
Val Ser Val Thr Cys Leu Val Lys Gly Phe Tyr Pro Ala Asp Ile Asn

```

145					150					155					160
Val	Glu	Trp	Gln	Arg	Asn	Gly	Gln	Pro	Glu	Ser	Glu	Gly	Thr	Tyr	Ala
				165					170					175	
Asn	Thr	Pro	Pro	Gln	Leu	Asp	Asn	Asp	Gly	Thr	Tyr	Phe	Leu	Tyr	Ser
			180					185					190		
Lys	Leu	Ser	Val	Gly	Lys	Asn	Thr	Trp	Gln	Arg	Gly	Glu	Thr	Leu	Thr
		195					200					205			
Cys	Val	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
	210					215					220				
Ile	Thr	Gln	Ser	Ser	Gly	Lys									
225					230										

&lt;210&gt; 18

&lt;211&gt; 246

&lt;212&gt; PRT

&lt;213&gt; Llama llama

&lt;400&gt; 18

Glu	Pro	Lys	Thr	Pro	Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Asn
1				5				10					15		
Pro	Thr	Thr	Glu	Ser	Lys	Cys	Pro	Lys	Cys	Pro	Ala	Pro	Glu	Leu	Leu
			20				25						30		
Gly	Gly	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Val	Leu
		35				40						45			
Ser	Ile	Ser	Gly	Arg	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Gly
	50				55					60					
Gln	Glu	Asp	Pro	Glu	Val	Ser	Phe	Asn	Trp	Tyr	Ile	Asp	Gly	Ala	Glu
65					70				75						80
Val	Arg	Thr	Ala	Asn	Thr	Arg	Pro	Lys	Glu	Gln	Phe	Asn	Ser	Thr	
				85				90					95		
Tyr	Arg	Val	Val	Ser	Val	Leu	Pro	Ile	Gln	His	Gln	Asp	Trp	Leu	Thr
		100					105						110		
Gly	Lys	Glu	Phe	Lys	Cys	Lys	Val	Asn	Asn	Lys	Ala	Leu	Pro	Ala	Pro
	115						120					125			
Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Thr	Arg	Glu	Pro	Gln
	130					135					140				
Val	Tyr	Thr	Leu	Ala	Pro	His	Arg	Glu	Glu	Leu	Ala	Lys	Asp	Thr	Val
145					150				155						160
Ser	Val	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Pro	Asp	Ile	Asn	Val
			165					170					175		
Glu	Trp	Gln	Arg	Asn	Gly	Gln	Pro	Glu	Ser	Glu	Gly	Thr	Tyr	Ala	Thr
		180					185						190		
Thr	Pro	Pro	Gln	Leu	Asp	Asn	Asp	Gly	Thr	Tyr	Phe	Leu	Tyr	Ser	Lys
		195				200						205			
Leu	Ser	Val	Gly	Lys	Asn	Thr	Trp	Gln	Gln	Gly	Glu	Thr	Phe	Thr	Cys
	210					215					220				
Val	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Ile
225					230					235					240
Thr	Gln	Ser	Ser	Gly	Lys										
				245											

&lt;210&gt; 19

&lt;211&gt; 248

&lt;212&gt; PRT

<213> Llama llama

<400> 19

Glu	Pro	Lys	Thr	Pro	Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	
1				5				10					15			
Pro	Asn	Pro	Thr	Thr	Glu	Ser	Lys	Cys	Pro	Lys	Cys	Pro	Ala	Pro	Glu	
			20				25						30			
Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Lys	Pro	Lys	Asp	
		35					40					45				
Val	Leu	Ser	Ile	Ser	Gly	Arg	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	
	50					55					60					
Val	Gly	Gln	Glu	Asp	Pro	Glu	Val	Ser	Phe	Asn	Trp	Tyr	Ile	Asp	Gly	
65					70					75					80	
Ala	Glu	Val	Arg	Thr	Ala	Asn	Thr	Arg	Pro	Lys	Glu	Glu	Gln	Phe	Asn	
				85					90					95		
Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Pro	Ile	Gln	His	Gln	Asp	Trp	
			100					105					110			
Leu	Thr	Gly	Lys	Glu	Phe	Lys	Cys	Lys	Val	Asn	Asn	Lys	Ala	Leu	Pro	
		115					120					125				
Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Thr	Arg	Glu	
	130					135					140					
Pro	Gln	Val	Tyr	Thr	Leu	Ala	Pro	His	Arg	Glu	Glu	Leu	Ala	Lys	Asp	
145					150					155					160	
Thr	Val	Ser	Val	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Pro	Asp	Ile	
				165					170					175		
Asn	Val	Glu	Trp	Gln	Arg	Asn	Gly	Gln	Pro	Glu	Ser	Glu	Gly	Thr	Tyr	
		180						185					190			
Ala	Thr	Thr	Pro	Pro	Gln	Leu	Asp	Asn	Asp	Gly	Thr	Tyr	Phe	Leu	Tyr	
		195					200					205				
Ser	Lys	Leu	Ser	Val	Gly	Lys	Asn	Thr	Trp	Gln	Gln	Gly	Glu	Thr	Phe	
	210					215					220					
Thr	Cys	Val	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	
225					230					235					240	
Ser	Ile	Thr	Gln	Ser	Ser	Gly	Lys									
				245												

<210> 20

<211> 250

<212> PRT

<213> Llama llama

<400> 20

Glu	Pro	Lys	Thr	Pro	Lys	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	Pro	Gln	
1				5				10					15			
Pro	Gln	Pro	Asn	Pro	Thr	Thr	Glu	Ser	Lys	Cys	Pro	Lys	Cys	Pro	Ala	
			20				25						30			
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Lys	Pro	
		35					40					45				
Lys	Asp	Val	Leu	Ser	Ile	Ser	Gly	Arg	Pro	Glu	Val	Thr	Cys	Val	Val	
	50					55					60					
Val	Asp	Val	Gly	Gln	Glu	Asp	Pro	Glu	Val	Ser	Phe	Asn	Trp	Tyr	Ile	
65					70					75					80	
Asp	Gly	Ala	Glu	Val	Arg	Thr	Ala	Asn	Thr	Arg	Pro	Lys	Glu	Glu	Gln	
				85					90					95		

Phe	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Pro	Ile	Gln	His	Gln		
			100					105					110				
Asp	Trp	Leu	Thr	Gly	Lys	Glu	Phe	Lys	Cys	Lys	Val	Asn	Asn	Lys	Ala		
		115					120					125					
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Thr		
		130				135					140						
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Ala	Pro	His	Arg	Glu	Glu	Leu	Ala		
145					150					155					160		
Lys	Asp	Thr	Val	Ser	Val	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Pro		
			165						170					175			
Asp	Ile	Asn	Val	Glu	Trp	Gln	Arg	Asn	Gly	Gln	Pro	Glu	Ser	Glu	Gly		
		180						185					190				
Thr	Tyr	Ala	Thr	Thr	Pro	Pro	Gln	Leu	Asp	Asn	Asp	Gly	Thr	Tyr	Phe		
		195					200					205					
Leu	Tyr	Ser	Lys	Leu	Ser	Val	Gly	Lys	Asn	Thr	Trp	Gln	Gln	Gly	Glu		
	210					215					220						
Thr	Phe	Thr	Cys	Val	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr		
225					230					235					240		
Gln	Lys	Ser	Ile	Thr	Gln	Ser	Ser	Gly	Lys								
				245					250								

&lt;210&gt; 21

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Llama llama

&lt;400&gt; 21

Ala	His	His	Ser	Glu	Asp	Pro	Thr	Ser	Lys	Cys	Pro	Lys	Cys	Pro	Gly		
1				5					10					15			
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Thr	Val	Phe	Ile	Phe	Pro	Pro	Lys	Ala		
		20						25					30				
Lys	Asp	Val	Leu	Ser	Ile	Thr	Arg	Lys	Pro	Glu	Val	Thr	Cys	Val	Val		
	35					40					45						
Val	Asp	Val	Gly	Lys	Glu	Asp	Pro	Glu	Ile	Asn	Phe	Ser	Trp	Ser	Val		
	50				55					60							
Asp	Gly	Thr	Glu	Val	His	Thr	Ala	Glu	Thr	Lys	Pro	Lys	Glu	Glu	Gln		
65				70					75						80		
Leu	Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Pro	Ile	Gln	His	Gln		
			85						90					95			
Asp	Trp	Leu	Thr	Gly	Lys	Glu	Phe	Lys	Cys	Lys	Val	Asn	Asn	Lys	Ala		
		100						105					110				
Leu	Pro	Ala	Pro	Ile	Glu	Arg	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Thr		
		115					120					125					
Arg	Glu	Pro	Gln	Val	Tyr	Thr	Leu	Ala	Pro	His	Arg	Glu	Glu	Leu	Ala		
	130					135					140						
Lys	Asp	Thr	Val	Ser	Val	Thr	Cys	Leu	Val	Lys	Gly	Phe	Phe	Pro	Ala		
145				150						155					160		
Asp	Ile	Asn	Val	Glu	Trp	Gln	Arg	Asn	Gly	Gln	Pro	Glu	Ser	Glu	Gly		
			165					170					175				
Thr	Tyr	Ala	Asn	Thr	Pro	Pro	Gln	Leu	Asp	Asn	Asp	Gly	Thr	Tyr	Phe		
		180					185					190					
Leu	Tyr	Ser	Lys	Leu	Ser	Val	Gly	Lys	Asn	Thr	Trp	Gln	Gln	Gly	Glu		
	195					200						205					
Val	Phe	Thr	Cys	Val	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Ser	Thr		

210	215	220
Gln Lys Ser Ile Thr Gln Ser Ser Gly Lys		
225	230	

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<220>  
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 ggtgtccact ccaggtgca g 81

<210> 23  
 <211> 38  
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<220>  
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<400> 23  
 gcaggtgtcc actcccaggt gcagctgaag gagtcagg 38

<210> 24  
 <211> 48  
 <212> DNA  
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<220>  
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<400> 24  
 ttttctaagc ttagttgtct tgagctccag ctgaaggagt caggacct 48

<210> 25  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<400> 25  
 ctgaaggagt caggacctgg cctggtgacg ccctcacaga gcctg 45

<210> 26  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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 <400> 26  
 acgccctcac agagcctgtc catcacttgt actgtctctg ggttt 45  
  
 <210> 27  
 <211> 45  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
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 <400> 27  
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 <210> 28  
 <211> 51  
 <212> DNA  
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 <220>  
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 <400> 28  
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 <210> 29  
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 <400> 29  
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 <210> 30  
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 <220>  
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 <210> 31  
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<220>  
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 <220>  
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 <212> DNA  
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 <211> 44  
 <212> DNA  
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 <400> 34  
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 <210> 36  
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 <211> 42  
 <212> DNA  
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 <210> 38  
 <211> 42  
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 <400> 38  
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 <210> 39  
 <211> 42  
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 <210> 40  
 <211> 42  
 <212> DNA  
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 agcttgacga ctcttcattt ttaagaaaac ttggcccttg ga 42  
 <210> 41  
 <211> 42

<212> DNA  
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 <220>  
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 <210> 42  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
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 <400> 42  
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 <210> 43  
 <211> 42  
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 <220>  
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 <400> 43  
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 <210> 44  
 <211> 42  
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 <220>  
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 <400> 44  
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 <210> 45  
 <211> 36  
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 <210> 46

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 <210> 47  
 <211> 20  
 <212> DNA  
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 <223> Primer  
  
 <400> 47  
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 <210> 48  
 <211> 44  
 <212> DNA  
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 <223> Primer  
  
 <400> 48  
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 <210> 49  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer  
  
 <400> 49  
 caggtgcagc tgggtgcagtc tgg 23  
  
 <210> 50  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Primer  
  
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<210> 51	
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caggtcaact rraagggagt ctgg	24
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caggtgcagc tgcaggagtc gg	22
<210> 53	
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gcgggatcca tttagttcaa tgcagttctg agac

34

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 <213> Mus musculus

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 1 5 10 15

<210> 62  
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<400> 62  
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 1 5 10 15

<210> 63  
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<400> 63  
 Tyr Cys Ala Tyr Tyr Asp Tyr Asp Gly Ile Ala Tyr Cys Trp  
 1 5 10

<210> 64  
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<400> 64  
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 1 5 10 15

<210> 65  
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 <213> Mus musculus

<400> 65  
 Tyr Cys Tyr Tyr Asp Asp His Tyr Ser Leu Asp Tyr Cys Trp  
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<210> 66  
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 <212> PRT  
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<400> 66  
 Tyr Cys Tyr Asp Asp His Tyr Ser Leu Asp Tyr Cys Trp

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1              5              10

<210> 67
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<400> 67
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1              5              10

<210> 68
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Tyr Cys Asp His Tyr Ser Leu Asp Tyr Cys Trp
1              5              10

<210> 69
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<400> 69
Tyr Cys Ala Arg Asp Ser Asp Trp Tyr Phe Asp Val Cys Trp
1              5              10

<210> 70
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<400> 70
Tyr Cys Ala Arg Ser Asp Trp Tyr Phe Asp Val Cys Trp
1              5              10

<210> 71
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Tyr Cys Ala Arg Asp Trp Tyr Phe Asp Val Cys Trp
1              5              10

<210> 72
<211> 14
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Tyr Cys Gly Tyr Ser Tyr Tyr Tyr Ser Met Asp Tyr Cys Trp

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1

5

10

<210> 73  
 <211> 13  
 <212> PRT  
 <213> Mus musculus

<400> 73

Tyr	Cys	Tyr	Ser	Tyr	Tyr	Tyr	Ser	Met	Asp	Tyr	Cys	Trp
1				5					10			

<210> 74  
 <211> 12  
 <212> PRT  
 <213> Mus musculus

<400> 74

Tyr	Cys	Ser	Tyr	Tyr	Tyr	Ser	Met	Asp	Tyr	Cys	Trp
1				5					10		

<210> 75  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 75

Tyr	Cys	Tyr	Asp	Tyr	Asp	Gly	Cys	Tyr
1				5				

<210> 76  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 76

Tyr	Cys	Tyr	Asp	Tyr	Asp	Tyr	Cys	Tyr
1				5				

<210> 77  
 <211> 9  
 <212> PRT  
 <213> Mus musculus

<400> 77

Tyr	Cys	Tyr	Asp	Tyr	Asp	Phe	Cys	Tyr
1				5				

<210> 78  
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 <212> PRT  
 <213> Mus musculus

<400> 78

Tyr	Cys	Tyr	Asp	Asp	His	Thr	Cys	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----

1

5

&lt;210&gt; 79

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 79

Tyr	Cys	Tyr	Asp	Asp	His	Gln	Cys	Tyr
1				5				

&lt;210&gt; 80

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 80

Tyr	Cys	Phe	Asp	Trp	Lys	Asn	Cys	Tyr
1				5				